

## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,104	11/26/2003	Ketan Padalia	306812006400	1304
51501 BEYER WEA	7590 05/04/2007 VER LLP	EXAMINER		
ATTN: ALTERA P.O. BOX 70250 OAKLAND, CA 94612-0250			NGO, CHUONG D	
			ART UNIT	PAPER NUMBER
			2193	
			MAIL DATE	DELIVERY MODE
			05/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	. Manual and	Application No.	Applicant(s)			
		10/723,104	PADALIA ET AL			
	Office Action Summary	Examiner	Art Unit			
		Chuong D. Ngo	2193			
Daried fo	The MAILING DATE of this communication app	ears on the cover sheet with the o	correspondence address			
	Period for Reply					
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133)			
Status						
1)⊠	Responsive to communication(s) filed on 26 No.	ovember 2003.				
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)🖂	4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)[	5) Claim(s) is/are allowed.					
6)⊠	☑ Claim(s) <u>1-15</u> is/are rejected.					
	Claim(s) is/are objected to.					
8)[_]	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
9)	The specification is objected to by the Examine	r.				
	The drawing(s) filed on $\underline{11/26/2003}$ is/are: a)		the Examiner.			
	Applicant may not request that any objection to the o					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage.						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
and the detailed enter detailed enter a list of the certified copies flut received.						
Attachmen	• •					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application						
Pape	Paper No(s)/Mail Date 6)  Other:					

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## **DETAILED ACTION**

1. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 1, "the K-LUT logic cell", lines 6-7, lacks a proper antecedent basis. Claim 15 also have the same problem.

As per claim 5, "the second one", line 5, lacks a proper antecedent basis.

As per claim 8, "the third one", lines 3, lacks a proper antecedent basis.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-3,9 and 10 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Nakaya (6,188,240).

As per claims 1-3, Nakaya discloses A programmable logic device (PLD) including a plurality of logic array blocks (LAB's) connected by a PLD routing architecture (see figure 34), wherein at least one LAB includes a logic element (LE) configurable to arithmetically combine a plurality of binary input signals in a plurality of stages (figure 17), the LE comprising look-up table (LUT) logic having K inputs (a "K-LUT") including a plurality of portions (2), each portion connected to a routing architecture (8) via an input line network (3) and having circuitry for

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generating binary result signals(C,S) indicative separate one a plurality of stages of the arithmetic combination of binary input signals, and providing the binary result signal to an output line network as claimed.

· additions.

As per claims 9 and 10, the input line network as disclosed in figure 44 clearly has a plurality of multiplexer (32) configurable to perform a selection function as claimed.

4. Claims 1,14 and 15 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by New (6,154,053).

New discloses a programmable logic device (PLD) including a plurality of logic array blocks (LAB's) connected by a PLD routing architecture (see figures 14-17), wherein at least one LAB includes a logic element (LE) having look-up table (LUT) logic configurable to arithmetically combine a plurality of binary input signals in a plurality of stages (figures 6-12), and at least one output multiplexer (170 in figure 7 and 131'-134' in figure 11) coupled to select among signals at the output under the control of a carry in (Cin) signal to the logic element as claimed.

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The examiner can normally be reached on Tuesday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chuong D Ngo Primary Examiner Art Unit 2193

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04/26/2007